



ANNUAL REPORT

OF THE

Department of Public Works

OF THE

PROVINCE OF ALBERTA

1935-36

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

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1936.

Edmonton, March 31st, 1936.

TO HIS HONOUR,

W. L. WALSH,

Lieutenant Governor of the Province of Alberta.

SIR:

The undersigned has the honour to submit herewith, the Report of the Department of Public Works for the fiscal year ending March 31st, 1936.

Respectfully submitted,

W. A. FALLOW,

Minister of Public Works.

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REPORT

OF THE

DEPUTY MINISTER OF PUBLIC WORKS

For the Fiscal Year Ending March 31st, 1936.

HON. W. A. FALLOW,
Minister of Public Works.

SIR:

I have the honour to submit herewith the report of the Department of Public Works, for the fiscal year ending March 31st, 1936.

HIGHWAYS.—The mileage of main highway maintained was 3,468.48, being a slight increase over the mileage of the previous year. Approximately 2,390 miles were kept open during the winter months by snow removal. Heavy snowfall considerably increased the difficulties of this work. The sum of \$375,794.70 was expended in Capital Grants to Municipal Districts and Improvement Districts for construction and maintenance of district highways and local roads. In addition to the above Grants, special appropriations were granted to various districts to the amount of \$130,484.35, this amount being used to cover expenditure on various work classed as emergent projects such as flood control, and on roads that are classed either as district highways or local roads, the expenditure for which is not covered by regular grant. The sum of \$9,826.05 was granted to Indian Reserves for improvement of roads.

An extensive programme was carried out by the Main Highways Construction Branch. Contracts were let for approximately 228 miles of standard grade, and about 175 miles have been completed.

In the Bridge Construction and Maintenance Branch, a considerable amount of work was performed on main highways, covering steel and timber bridges, and pile and concrete culverts. All-steel bridges were fabricated within the Province. Seven new steel bridges were constructed, 10 steel bridges were reconstructed, 200 timber bridges constructed, and 181 bridges maintained; making a total of 398 bridges dealt with for the year.

SURVEYS.—The report of the Director of Surveys shows a decrease in the number of surveys carried forward to the ensuing

year and an increase in plans submitted by Municipal Districts and titles issued.

BUILDINGS.—The general repair and maintenance of all public buildings and institutions has been carried on, similar to previous years, in order to keep them up to standard requirements.

Details of maintenance, alterations and additions to buildings are contained in the reports of Superintendent of Buildings and Mechanical Superintendent.

PROVINCIAL GAOLS.—The reports of the wardens will show that these institutions have been administered in an efficient and satisfactory manner. There was a decrease of 32.92 in the daily average gaol population, and a decrease of 59 in the number of prisoners admitted, over that of the previous year.

PUBLIC VEHICLES.—The report of the Chief Clerk shows a substantial increase in miles as compared with the previous year, and a decided betterment of equipment used by operators.

Respectfully submitted,

H. P. KEITH,
Deputy Minister.

**MAIN HIGHWAYS MAINTENANCE
DISTRICT HIGHWAYS AND LOCAL ROADS
FERRY OPERATION AND MAINTENANCE, REPLACE-
MENTS AND INSTALLATIONS**
(H. P. KEITH, *Chief District Engineer*)

The attached annual report for the fiscal year 1935-36 contains in detail the following:

1. Statement showing expenditure on maintenance of main highways. A total of 3,468.48 miles of this class of road was maintained at a cost of \$566,613.66.

2. Statement showing the distribution from both capital and income accounts of funds to assist municipal units in the construction and maintenance of district highways and local roads. A total expenditure of \$516,105.10 was made in this way.

3. Statement showing in detail the expenditure made in connection with the operation, maintenance and replacement of ferries from income account. There were 57 ferries in operation during the season at a total cost of \$72,509.12. The ferry over the North Saskatchewan River at the fourth meridian, north of Lloydminster, was operated by the Saskatchewan Government, this Department paying 50 per cent. of the cost of operation and maintenance.

4. Statement showing an expenditure of \$2,213.85 from capital account and covering the grading of new approaches at the Dunvegan ferry.

STATEMENT OF EXPENDITURE FROM INCOME FOR THE FISCAL YEAR
ENDING MARCH 31st, 1936, FOR MAINTENANCE OF MAIN HIGHWAYS

Location	Miles	Amount
Edmonton to Calgary:		
Sec. A. Calgary to Red Deer.....	93.72	\$ 25,549.60
Sec. B. Red Deer to Millet.....	62.15	16,634.77
Sec. C. Millet to Edmonton.....	27.50	22,226.55
Calgary to Banff Park Boundary.....	72.00	13,685.52
Calgary to Medicine Hat:		
Sec. A. Calgary to Brooks.....	121.00	22,786.10
Sec. B. Brooks to Medicine Hat.....	64.25	6,370.07
Calgary to United States Boundary:		
Sec. A. Calgary to Nanton.....	53.57	34,016.95
Sec. B. Nanton to Carway.....	107.12	11,742.56
Walsh to Crow's Nest:		
Sec. A. Walsh to Winnifred.....	54.98	5,739.93
Sec. B. Winnifred to Crow's Nest.....	179.69	23,468.87
Lethbridge to Coutts.....	71.65	10,535.00
Calgary to Bowness Park.....	4.72	17.49
Hanna to Viking:		
Sec. A. Hanna to Battle River.....	63.00	3,982.21
Sec. B. Battle River to Viking.....	54.00	2,654.93
Inverlake to Alsask:		
Sec. A. Inverlake to Munson.....	73.79	10,014.13
Sec. B. Munson to Alsask.....	128.58	13,946.24
Lacombe to Compeer:		
Sec. A. Lacombe to Castor.....	83.70	13,077.96
Sec. B. Castor to Coronation.....	21.78	4,945.96
Sec. C. Coronation to Compeer.....	76.00	4,500.01
Wetaskiwin to Hayter:		
Sec. A. Wetaskiwin to Camrose.....	23.44	4,659.16
Sec. B. Camrose to Hayter.....	147.87	10,852.87

DEPARTMENT OF PUBLIC WORKS

Location	Miles	Amount
Edmonton to Saskatchewan Boundary:		
Sec. A. Edmonton to Wainwright.....	134.05	12,173.96
Sec. B. Wainwright to Saskatchewan Boundary.....	43.00	1,811.10
Edmonton to Lloydminster:		
Sec. A. Edmonton to Chipman.....	39.60	5,741.53
Sec. B. Chipman to East Boundary Range 13.....	47.03	9,046.57
Sec. C. East Boundary Range 13 to Lloydminster.....	87.30	9,319.85
Edmonton to Jasper Park:		
Sec. A. Edmonton to Edson.....	123.00	24,871.70
Sec. B. Edson to Jasper Park.....	74.00	5,793.35
Edmonton to Athabasca:		
Sec. A. Edmonton to Elk Island.....	87.90	20,487.62
Edmonton to Elk Island:		
Sec. A. Edmonton to Elk Island.....	36.42	5,331.28
Grande Prairie to Pouce Coupe:		
Sec. A. Grande Prairie to Pouce Coupe.....	65.00	8,627.07
Athabasca to Peace River:		
Sec. A. Athabasca to Smith.....	60.00	8,611.28
Sec. B. Smith to Peace River.....	180.00	46,798.33
Sylvan Lake to Rocky Mountain House:		
Sec. A. Sylvan Lake to Rocky Mountain House.....	38.80	3,889.13
Peace River to Grande Prairie:		
Sec. A. Peace River to Dunvegan.....	70.00	8,659.88
Sec. B. Dunvegan to Grande Prairie.....	66.00	6,793.35
Drumheller to Wayne:		
Sec. A. Drumheller to Wayne.....	7.70	1,492.05
Cardston to Waterton:		
Sec. A. Cardston to Waterton.....	24.77	5,530.37
Pincher to Waterton:		
Sec. A. Pincher to Waterton.....	31.37	1,204.32
Okotoks to Turner Valley:		
Sec. A. Okotoks to Turner Valley.....	17.00	3,201.03
Kipp to High River:		
Sec. A. Kipp to Carmangay.....	24.70	2,235.72
Sec. B. Carmangay to High River.....	64.16	8,342.31
Vulcan to Strathmore:		
Sec. A. Vulcan to Strathmore.....	44.00	2,497.18
Lethbridge to Cardston:		
Sec. A. Lethbridge to Cardston.....	51.07	5,265.70
Lacombe, Gull Lake, Sylvan Lake, Red Deer:		
Sec. A. Lacombe to Gull Lake.....	35.00	4,383.68
Jasper Highway to Seba Beach:		
Sec. A. Jasper Highway to Seba Beach.....	2.10	84.00
Jasper Highway to Edmonton Beach:		
Sec. A. Jasper Highway to Edmonton Beach.....	2.40	51.50
Jasper Highway to Kapasiwin Beach:		
Sec. A. Jasper Highway to Kapasiwin Beach.....	2.50	72.00
Midnapore to Turner Valley:		
Sec. A. Midnapore to Turner Valley.....	27.00	3,373.86
Beiseker to Nevis:		
Sec. A. Beiseker to Nevis.....	86.90	9,052.06
Jasper Highway to Alberta Beach:		
Sec. A. Jasper Highway to Alberta Beach.....	17.00	258.08
Clyde to Barrhead:		
Sec. A. Clyde to Barrhead.....	31.30	3,370.48
Wetaskiwin to Pigeon Lake:		
Sec. A. Wetaskiwin to Pigeon Lake.....	28.10	3,442.99
Black Diamond to Hartell:		
Sec. A. Black Diamond to Hartell.....	6.00	661.00
Jasper Highway to Country Club:		
Sec. A. Jasper Highway to Country Club.....	2.30	100.78
Duvernay to Cold Lake:		
Sec. A. Duvernay to Cold Lake.....	100.00	8,052.43
Grimshaw to Battle River:		
Sec. A. Grimshaw to Battle River.....	75.00	8,715.70
South Cooking Lake Highway to Airport:		
Sec. A. South Cooking Lake Highway to Airport.....	1.30	115.88
Edmonton to Gibbons:		
Sec. A. Edmonton to Gibbons.....	25.20	30.20
Olds to Sundre:		
Sec. A. Olds to Sundre.....	25.00	89.99
Total:	3,468.48	\$511,426.92
SUMMARY		
Maintenance of Main Highways.....		\$511,426.92
Administration and Supervision.....		16,434.45
Machinery and Equipment.....		2,713.45
Repairs to Machinery.....		661.76
Sundries.....		13,652.18
		\$544,888.76
Spent under Vote 706-B.H. Gravel Replacement (See Highway Commissioner's Report).....		21,724.90
Total:		\$566,613.66

STATEMENT OF EXPENDITURE ON CONSTRUCTION AND MAINTENANCE OF DISTRICT HIGHWAYS AND LOCAL ROADS

April 1st, 1935, to March 31st, 1936

I.D. or		I.D. or		I.D. or		I.D. or	
M.D.	Capital	M.D.	Capital	M.D.	Capital	M.D.	Capital
1	\$ 356.55	274	\$ 344.00	461	\$1,997.69	637	\$ 893.45
I.D.	500.41	M.D.	275 880.00	I.D.	462 600.22	M.D.	638 1,300.00
I.D.	411.56	I.D.	276 999.93	M.D.	481 1,319.15	I.D.	639 2,272.55
I.D.	862.86	M.D.	277 826.00	M.D.	482 1,360.00	I.D.	640 2,030.70
I.D.	818.56	M.D.	278 1,240.00	M.D.	483 1,400.00	I.D.	641 2,520.17
I.D.	1,121.56	M.D.	279 1,220.00	M.D.	484 1,320.00	I.D.	642 389.75
I.D.	768.14	M.D.	280 1,420.00	M.D.	485 1,180.00	I.D.	645 5,583.96
I.D.	999.25	M.D.	281 1,220.00	M.D.	486 1,540.00	I.D.	666 426.60
I.D.	523.16	I.D.	282 1,557.98	M.D.	487 1,800.00	I.D.	667 5,254.80
M.D.	980.00	M.D.	301 880.00	M.D.	488 1,400.00	M.D.	668 275.00
I.D.	486.60	M.D.	302 423.70	M.D.	489 1,900.00	I.D.	669 1,313.05
I.D.	899.24	M.D.	303 470.80	M.D.	490 1,780.00	I.D.	696 518.05
M.D.	800.00	M.D.	304 760.00	I.D.	491 2,496.88	I.D.	697 1,009.60
M.D.	966.00	M.D.	305 1,100.00	M.D.	511 1,560.00	I.D.	698 308.85
I.D.	981.59	M.D.	306 918.50	M.D.	512 1,500.00	I.D.	699 1,499.99
M.D.	1,200.00	M.D.	307 900.00	M.D.	513 1,400.00	I.D.	706 591.95
M.D.	700.00	M.D.	308 1,320.00	M.D.	514 1,460.00	I.D.	707 518.80
I.D.	696.72	M.D.	309 865.42	M.D.	515 1,600.00	I.D.	708 244.63
M.D.	796.00	M.D.	310 1,520.00	M.D.	517 774.58	I.D.	709 213.45
M.D.	40 305.00	M.D.	311 1,286.42	M.D.	518 1,600.00	I.D.	710 783.87
I.D.	879.49	I.D.	312 1,720.00	M.D.	519 1,520.00	I.D.	726 4,142.86
I.D.	738.95	I.D.	331 841.85	M.D.	520 1,386.97	I.D.	729 373.44
I.D.	765.39	I.D.	332 894.83	M.D.	521 1,700.00	I.D.	731 353.66
M.D.	4 1,350.00	I.D.	333 979.53	M.D.	522 1,680.00	I.D.	732 887.65
M.D.	900.00	I.D.	334 1,461.20	I.D.	523 1,506.58	I.D.	733 508.14
I.D.	1,142.75	M.D.	336 873.68	I.D.	525 290.90	I.D.	734 463.10
I.D.	7,106.20	M.D.	337 1,011.17	I.D.	526 313.57	I.D.	735 600.00
I.D.	632.00	M.D.	338 1,480.00	I.D.	541 635.96	I.D.	736 756.03
M.D.	710.00	M.D.	339 1,626.63	M.D.	542 1,148.50	I.D.	737 486.66
M.D.	70 780.00	M.D.	340 1,257.15	M.D.	543 1,793.32	I.D.	738 1,246.07
I.D.	405.20	M.D.	341 2,200.00	M.D.	544 1,060.00	M.D.	739 2,400.00
I.D.	905.91	M.D.	342 1,340.00	M.D.	545 1,640.00	M.D.	740 1,883.08
M.D.	1,000.00	M.D.	343 1,370.02	M.D.	546 1,200.00	I.D.	741 2,073.58
I.D.	422.95	M.D.	361 1,100.00	M.D.	547 1,000.00	I.D.	742 985.02
M.D.	800.00	M.D.	362 1,140.00	M.D.	548 1,200.00	I.D.	764 3,501.81
I.D.	1,328.02	M.D.	363 1,220.00	M.D.	549 1,000.00	I.D.	765 756.12
I.D.	7,120.24	M.D.	364 1,500.00	M.D.	550 1,740.00	I.D.	766 1,828.20
M.D.	1,200.00	M.D.	365 1,300.00	M.D.	551 2,233.06	I.D.	769 1,411.45
M.D.	99 1,148.40	M.D.	366 505.68	M.D.	552 1,660.00	I.D.	770 3,166.22
I.D.	913.62	M.D.	367 1,320.00	I.D.	553 1,444.05	I.D.	771 2,423.28
I.D.	301.01	M.D.	368 1,440.00	I.D.	554 1,436.50	I.D.	772 2,144.72
I.D.	2,812.92	M.D.	391 1,240.00	I.D.	555 1,389.42	I.D.	794 743.00
I.D.	4,931.52	M.D.	392 1,120.00	I.D.	556 300.60	I.D.	795 564.81
I.D.	3,979.84	M.D.	393 1,160.00	I.D.	571 523.54	I.D.	796 4,337.64
I.D.	2,595.87	M.D.	394 900.00	M.D.	572 1,080.00	I.D.	797 993.00

DEPARTMENT OF PUBLIC WORKS

	Income	Capital	Total
Total Expenditure Capital Grants to I.D.'s and M.D.'s	*	\$375,794.70	\$375,794.70
Appropriation to Indian Reserves.....\$	3,174.95	6,651.10	9,826.05
Special Appropriations:			
Onoway to Whitecourt.....	4,216.02	.....	4,216.02
Barrhead to Fort Assiniboine.....	2,251.11	.....	2,251.11
High Prairie to Sturgeon Lake.....	5,096.65	.....	5,096.65
Smoky River to Sturgeon Lake.....	2,128.51	.....	2,128.51
Smoky River westerly to Main Highway.....	799.40	.....	799.40
Special Grant M.D. 70 Maintenance of Roads.....	400.00	.....	400.00
Rocky Mountain House to Nordegg.....	998.31	.....	998.31
Flood Control High Prairie District.....	1,977.20	.....	1,977.20
Milk River East.....	.....	1,000.00	1,000.00
South from Taber.....	.....	414.00	414.00
Taber to Vauxhall.....	.....	1,976.00	1,976.00
Beaver Crossing to Cherry Grove.....	.....	1,990.69	1,990.69
West from LaCorey 6 miles, south 7 miles.....	.....	1,437.84	1,437.84
Hines Creek District Highway, 24 miles.....	.....	6,108.77	6,108.77
Through Hines Creek Valley.....	.....	1,798.05	1,798.05
Between Dixonville and Clear Hills and 4 miles west .....	.....	607.72	607.72
Westerly from Girouxville to Smoky River.....	.....	1,093.28	1,093.28
Kathleen easterly around south of Winagami Lake to Heart River.....	.....	1,000.00	1,000.00
Sturgeon Lake Road to Snipe Lake Settlement...	.....	800.00	800.00
Enilda to Grouard and Salt Prairie.....	.....	799.72	799.72
Salt Prairie and Grouard around Buffalo Bay to Big Prairie .....	.....	847.44	847.44
Through centre 77-16-5, to connect Prairie Settlement with Big Prairie.....	.....	792.42	792.42
South of Little Smoky River, Tp. 75-22-5.....	.....	452.65	452.65
Between Mirror Landing and Moose Portage.....	.....	598.40	598.40
Grouard to Whitefish Lake.....	.....	499.85	499.85
Slave Lake to Wabasca.....	.....	799.25	799.25
Wapiti River Hills in Sec. 23, Tp. 70-6-6.....	.....	499.68	499.68
Wapiti River Hills in Sec. 11, Tp. 70-8-6.....	.....	480.49	480.49
Smoky River Hills in Secs. 8, 9 and 17-72-2-6.....	.....	1,000.00	1,000.00
Spirit River, Whitburn and west.....	.....	2,551.47	2,551.47
Belloy to Watino.....	.....	8,721.03	8,721.03
Vauxhall to Grantham.....	.....	597.00	597.00
North 34-36 and south and through Sec. 33-65-16-4	.....	300.90	300.90
Goodfish Lake to Vilna.....	.....	999.36	999.36
Owl River Bridge Approaches Sec. 6-69-13-4.....	.....	498.35	498.35
North Sections 35 and 36, Tp. 62-2-4.....	.....	291.70	291.70
North Sections 23 and 24, Tp. 62-5-4.....	.....	250.00	250.00
From Lessard, through 13-63-5-4 and north 17 and 18, to Sec. 32-63-4-4.....	.....	506.20	506.20
North and east of Sec. 9-63-5-4.....	.....	300.00	300.00
South Sections 2 and 3-62-9-4.....	.....	211.22	211.22
From N.E. 34-64-2-4 south and along north boundary I.R. No. 149 B.....	.....	150.00	150.00
Plamondon to Wandering River.....	.....	743.15	743.15
Lac La Biche south in I.D. 666.....	.....	776.82	776.82
South 3-6 and east 4-21, Tp. 67-15-4.....	.....	258.10	258.10
Calling Lake Road.....	.....	1,041.67	1,041.67
Fawcett to Flatbush.....	.....	488.69	488.69
Proportion of Cost Overhead Crossing at Nobleford Boyle north .....	.....	1,702.53	1,702.53
East Sections 4 and 9-78-22-5.....	.....	3,860.47	3,860.47
Picture Butte Highway Project.....	.....	440.60	440.60
Reconstruction of Bridge Mile 145.3 between Harlech and Brazeau.....	.....	969.58	969.58
General Supervision and "Other Work".....	22,867.31	690.00	690.00
General Expense and Additional Work.....	6,046.68	.....	22,867.31
Spent under Vote 771-B.H.:		18,666.10	24,712.78
Improvement of road between Foothills and Coalspur, and for materials and tractor hire on road between Tie Creek and Mountain Park (See Highway Commissioner's Report).....	.....	13,691.97	13,691.97
Totals.....\$	49,956.14	\$466,148.96	\$516,105.10

*No Income Grants to I.D.'s or M.D.'s.

DEPARTMENT OF PUBLIC WORKS

REPLACEMENTS AND INSTALLATIONS—Continued

	Location	Operation and Maintenance	Description	Cost	Total
Red Deer	River at Gregory Crossing	\$ 1,044.12		.....	\$ 1,044.12
North Saskatchewan	River at Elk Point	1,107.89	Ferry Cage	628.51	1,736.40
Red Deer	River at West of Morrin	855.49		.....	855.49
Athabasca	River at Smith	1,319.40		.....	1,319.40
Athabasca	River at Klondyke Crossing	777.37		.....	777.37
Pembina	River at West of Flatbush	596.91		.....	596.91
Wapiti	River at South of Wembley	714.41	Towers	340.50	1,054.91
Red Deer	River at East Coulee	786.78		.....	786.78
Pembina	River at West of Fawcett	666.33	42' Scow	1,553.32	2,219.65
Bow	River at South of Crowfoot	1,099.08	2nd-hand Engine	376.06	1,485.14
Pembina	River at South of Fawcett	758.28		.....	758.28
North Saskatchewan	River at Waskateneau	1,205.81		.....	1,205.81
Athabasca	River at North of Blue Ridge	873.57		.....	873.57
McLeod	River at Mahaska	573.77		.....	573.77
Red Deer	River at North of Atlee	831.13		.....	831.13
North Saskatchewan	River at Forbesville	753.21	Tower	300.55	1,053.76
South Saskatchewan	River at South of Empress	1,155.38		.....	1,155.38
McLeod	River at Rosevear	635.03		.....	635.03
North Saskatchewan	River at Warspite	607.44		.....	607.44
Peace	River at Fort Vermilion	1,586.52	Ferry House	4.84	1,591.36
North Saskatchewan	River at Helmsburg	1,080.01		.....	1,080.01
Red Deer	River at Rosedale	1,612.35	Capstan	98.61	1,612.35
North Saskatchewan	River at North of Beauvalton	1,305.30		.....	1,305.30
Bow	River at Bow Slope	810.18	42' Scow Towers	2,287.35	3,097.53
		\$53,206.86		\$17,143.36	\$70,350.22
			Administration and Supervision	2,158.90	2,158.90
			Total		\$72,509.12

*Operated by Saskatchewan Government.

STATEMENT OF EXPENDITURE FERRIES CONSTRUCTION

April 1st, 1935, to March 31st, 1936

Dunvegan Ferry over Peace River:

Grading New Approaches North and South Sides of River....\$2,213.85

MAIN HIGHWAYS

(C. A. DAVIDSON, *Highway Commissioner*)

Contracts awarded in the year ending March 31st, 1936, on Main Highway projects are as follows:

STANDARD EARTH GRADE

Location	Miles	%	Miles Comp.	Miles Comp.	Contractor
Bentley-Rimbey	16.52	96	16.40	15.86	Laughlin & McDonald

Contracts awarded in 1934 and carried forward into 1935:

STANDARD EARTH GRADE

Location	Miles	%	Miles Comp.	Miles Comp.	Contractor
Calgary-Strathmore	28.28	100	16.40	16.40	Fred Mannix
Beaupre Creek-Morley	13.95	100	5.35	5.35	Poole Construction Co. Ltd.
Kananaskis-Banff Park Boundary	15.60	95	15.24	15.24	Poole Construction Co. Ltd.
Hardisty-Hughenden	19.25	100	16.37	16.37	Fred Mannix
Coronation-Veteran	17.14	100	14.23	14.23	Fred Mannix
Irma-Wainwright	17.75	100	15.97	15.97	Western Canada Const. Ltd.
Edson-Pedley	20.59	100	7.18	7.18	West. Const. & Lbr. Co. Ltd.
Pedley-Jasper Park Bdy.....	24.91	100	20.63	20.63	Fred Mannix
Edmonton-Gibbons	25.39	94	23.15	23.15	Belyea Construction Ltd.
	182.86		134.52	134.52	

SECONDARY HIGHWAYS

STANDARD EARTH GRADE

Location	Miles	%	Miles Comp.	Miles Comp.	Contractor
Dog Pound Creek-Sundre....	12.76	100	10.81	10.81	Belyea Construction Ltd.
Grainger via Carbon to Project 5	16.65	100	13.66	13.66	F. Jackson
	29.41		24.47	24.47	

GRADING

Total quantities taken out under all contracts, with average costs of same:

Unit of Bid	Quantity	Average Cost
Clearing and Close Cutting.....	636.22 Acres	\$20.566
Stumping and Grubbing.....	318.20 Acres	32.419
Solid Rock	58,100 Cu. Yds.	0.972
Loose Rock	239,851 Cu. Yds.	0.260
Common Excavation	2,487,089 Cu. Yds.	0.146
Wet Excavation	33,615 Cu. Yds.	0.330
All Other Material.....	374,312 Cu. Yds.	0.196
Overhaul	2,080,739 Sta. Yds.	0.014
Rip-rap	3,667.64 Cu. Yds.	1.417
Rip-rap (Protection work Chestermere Lake)	3,480.5 Cu. Yds.	1.247
Paving	972.02 Cu. Yds.	1.987

GRAVEL SURFACING MAIN HIGHWAYS

Contracts awarded in the year ending March 31, 1936, on Main Highway projects are as follows:

Location	Miles	% Comp.	Type	Contractor
Calgary-Crossfield	25.15	100	R.G.	Bennett & White Const.Co.Ltd.
Calgary-Strathmore	28.28	100	1.G.	Fitzgerald & Starky Ltd.
Strathmore-Duchess	48.64	100	2.G.	Fitzgerald & Starky Ltd.
Beaupre Creek-Morley	13.95	100	1.G.	Poole Construction Co. Ltd.
Kananaskis-Banff Pk. Bdy...	15.60	74	1.G.	Poole Construction Co. Ltd.
Irma-Wainwright	17.75	100	1.G.	Western Canada Constr. Ltd.
Edson-Pedley	20.59	100	1.G.	Fitzgerald & Starky Ltd.
Pedley-Jasper Park Bdy....	24.91	94	1.G.	Fitzgerald & Starky Ltd.
Lacombe	1.51	100	1.G.	Town of Lacombe.

Miles 1.G., 122.59; miles 2.G., 48.64; miles R.G., 25.15.

1.G.—first course gravel. 2.G.—second course gravel. R.G.—replacement gravel.

Total quantities taken out under all gravelling contracts and average costs of same:

	Cu. Yds.	Average Cost
1" Crushed Gravel to Railway Cars...	32,374	37.305 cents
1" Crushed Gravel to Trucks.....	57,857	33.103 cents
Gravel from Stock Piles to Trucks....	38,517.75	13.578 cents
Gravel Haul	1,021,218 cu. yds. miles	.....
Average Haul Distance by Trucks....	7.93 miles	.....
Haul by Trucks.....	.....	10.98 cents
Average Cost of Haul by Rail.....	.....	\$1.13 per cu. yd.
Average Cost of 1" Gravel Laid Down	.....	\$1.63 per cu. yd.

IMPROVED GRAVEL (OIL) MAIN HIGHWAYS, 1935

Location	Miles	
Calgary-Strathmore	13.18	Maintenance Department
Calgary-Banff	12.10	Maintenance Department
	25.28 miles	

CABLE GUARD ERECTION

Main and Secondary Highways, 1935

Cable Guard Installed.....	69,397 Lin. Feet
Dummy Posts (installed without Cable).....	2,084 Lin. Feet
Total Number of Posts Driven.....	8,322
Average Cost of Cable Guard in Place.....	18.35 cents per Lin. Foot
Concrete Cable Guard Posts:	No. of Posts Comp.
D.N.D. Camp at Canmore.....	56
D.N.D. Camp at Frank Slide.....	9
Total.....	65 concrete posts

MISCELLANEOUS WORKS, 1935

Location	Miles	% Comp.	Miles Comp. 1935	Type	Contractor
Styal-Carrot Creek	31.58	6	2.00	S.E.G.	Day Labour
Coalspur-Foothills	12.31	22	2.75	S.E.G.	Day Labour
Tie Creek-Mountain Park...	3.00	8	0.25	S.E.G.	Day Labour
Warner North Hill.....	0.75	100	0.75	Grade and Gravel	Day Labour
Olds Westerly	1.25	68	0.85	S.E.G.	M.D. Mtn. View No.310
Edmonton-Athabasca .....	....			Pile Protection Work and Pile Culverts in- stalled by Bridge Department.	

IMPROVEMENT OF HIGHWAYS WITHIN INCORPORATED AREAS

40.00.E.	Municipality	Type	Total Cost of Work	Contributed Works	by Province Engineering
15	Edson	G S	\$11,888.45	\$11,398.31	\$ 139.34
20	Lacombe	G S	4,569.26	2,195.28	1,046.27
22	Macleod	S	756.00*	338.77	.....
23	Medicine Hat	S	1,983.68**	991.84	.....
40	Gleichen	S	513.44	513.44	.....
51	Cluny	S	228.91	114.46	16.50
82	Duchess	S	356.50	.....	5.50
87	Carbon	G	3,174.19	3,174.19	136.60
89	Rimbey	S	1,656.97	980.94	96.50
			<u>\$25,127.40</u>	<u>\$19,707.23</u>	<u>\$ 1,440.71</u>

G—Grading. S—Surfacing.

*\$2,405.53 Paving in addition not shared by Province.

**\$4,630.34 Paving in addition not shared by Province.

THE PROVINCE

CONSTRUCTION EXPENDITURES ON MAIN

VOTE 754

Project No.	LOCATION	Preliminary Engineering	Advertising	Construction Engineering	Clearing and Grubbing	Grading
2-B-1	Bow Island-Seven Persons.....	.....	.....	.....	.....	.....
2-B-2	Seven Persons-Medicine Hat.....	.....	.....	.....	.....	.....
2-C-1	Lethbridge-Chin .....	.....	.....	.....	.....	.....
2-C-2	Chin-Taber .....	.....	.....	.....	.....	.....
2-C-3	Taber-Grassy Lake .....	.....	.....	.....	.....	.....
2-C-4	Grassy Lake-Bow Island.....	.....	.....	.....	.....	.....
2-D-1	Lethbridge-Mile 158.61 .....	.....	.....	.....	.....	.....
2-D-2	Monarch-Mile 173.27 .....	.....	.....	.....	.....	.....
2-D-3	Mile 158.61-Monarch .....	.....	.....	.....	.....	.....
2-D-4	Mile 173.27-Macleod .....	.....	.....	.....	.....	.....
2-E-4	Frank-Lundbreck .....	.....	.....	.....	\$	233.60
2-E-5	Pincher-Lundbreck .....	.....	.....	.....	.....	.....
3-C-1	Cardston-Waterton River .....	.....	.....	.....	.....	.....
3-C-2	Waterton River-Macleod .....	.....	.....	.....	.....	.....
4-A-1	Calgary-Inverlake .....	.....	\$ 39.52	\$ 8,374.38	\$ 33.00	60,178.40
4-A-2	Inverlake-13 Miles East Strathmore .....	.....	39.52	2,639.57	5.50	6,740.68
4-A-3	13 Miles East Strathmore-Gleichen.....	.....	39.52	410.85	.....	.....
4-B-1	Brooks-Kininvie .....	.....	.....	.....	.....	.....
4-B-2	Gleichen-Bassano .....	.....	39.52	549.30	.....	.....
4-B-3	Bassano-Brooks .....	.....	39.52	366.27	.....	.....
4-C-2	Redcliff-Kininvie .....	.....	.....	.....	.....	.....
6-A-1	Warner-11 Miles North.....	.....	.....	18.87	.....	630.05
6-A-2	11 Miles North Warner-Stirling.....	.....	.....	.....	.....	.....
6-A-3	Stirling-Lethbridge .....	.....	.....	.....	.....	.....
6-B-1	Milk River-6 Miles North.....	.....	.....	.....	.....	.....
6-B-2	6 Miles North Milk River-Warner.....	.....	.....	.....	.....	.....
6-B-3	Milk River-International Boundary.....	.....	.....	.....	.....	.....
7-A	Calgary-Cochrane .....	.....	.....	.....	.....	.....
7-B	Cochrane-Mile 33.8 .....	.....	.....	518.97	40.45	2,530.75
7-C	Mile 33.8-Kananaskis	\$ 1,198.00	.....	4,743.46	120.09	41,411.85
7-D	Kananaskis-Park Boundary	1,611.66	.....	6,057.15	3,618.31	74,622.38
9-A-2	5 Miles North Red Deer-Sylvan Lake .....	.....	.....	.....	.....	.....
10-C-1	Daysland-Sedgewick .....	.....	.....	.....	.....	.....
10-C-2	Sedgewick-Hardisty .....	.....	.....	48.46	.....	.....
10-D-1	Hardisty-Hughenden	185.98	.....	4,729.91	1,103.06	38,186.45
10-D-2	Hughenden-Easterly	352.05	.....	.....	.....	.....
11-C-2	Coronation-Veteran .....	.....	.....	3,013.40	46.76	20,745.15
12-D-1	Irma-Wainwright	624.70	.....	3,345.53	1,327.53	56,180.57
14-D-3	Styal-Carrot Creek .....	.....	.....	1,555.87	137.00	19,794.50
14-E-1	Edson-Pedley	411.56	40.64	3,781.00	3,518.56	48,320.51
14-E-2	Pedley-Park Boundary	503.62	40.63	4,309.41	5,297.09	46,913.68
15-A-1	Legal-Clyde .....	.....	.....	.....	.....	.....
15-A-2	Edmonton-Legal	114.61	.....	.....	.....	2,337.06
15-B-3	Clyde-Rochester .....	.....	.....	.....	.....	.....
23-A	Cardston-Waterton Lakes Park.....	.....	.....	.....	.....	.....
25-A	Lacombe-Gull Lake .....	.....	.....	.....	.....	.....
26-A	Edmonton-Gibbons	327.51	.....	4,499.42	2,505.92	59,960.86
27-A	Rimbey-Bentley .....	.....	81.27	1,790.00	349.28	20,097.98
43-6	Gull Lake-Sylvan Lake.....	.....	.....	.....	.....	.....
43-8	Cardston-Lethbridge .....	.....	.....	.....	.....	.....
43-11	Jasper Highway-Alberta Beach.....	13.73	.....	.....	.....	.....
43-13	Wetaskiwin-Pigeon Lake .....	.....	.....	.....	.....	.....
43-14	Olds-Sundre	158.81	.....	6,276.09	634.93	32,948.88
43-15	Grainger-Carbon-Route 9 .....	.....	.....	3,368.27	3.43	27,953.22
40-02-A	Calgary-Banff Park .....	.....	.....	354.23	.....	.....
40-03-A	Calgary-Strathmore .....	.....	.....	179.72	.....	.....
40-17-A	Edmonton-Chipman Corner	99.60	.....	.....	.....	.....
40-19-A	Athabasca-Smith .....	.....	.....	.....	.....	.....
40-19-B	Smith-Peace River	2,144.88	.....	.....	.....	424.63
40-40-A	Duvernay-Cold Lake .....	.....	.....	.....	.....	.....
41-1-11	.....	.....	.....	.....	.....	.....
41-1-22	Bow Island-Foremost	1,044.47	.....	.....	.....	.....
41-2-36	Lethbridge-Iron Springs	2,615.19	.....	.....	.....	.....
41-6-32	.....	.....	.....	.....	.....	.....
41-6-20	Innisfail-East	186.68	.....	.....	.....	.....
41-7-21	Manville-North	453.95	.....	.....	.....	.....
41-8-12	Onoway-Sangudo	251.12	.....	.....	.....	.....
42-519	Jasper Highway-Winterburn Reserve	167.90	.....	.....	.....	.....
TOTALS.....		\$12,466.02	\$360.14	\$60,930.13	\$18,740.91	\$560,115.20

OF ALBERTA

HIGHWAYS, APRIL 1st, 1935, TO MARCH 31st, 1936

W.S.P. and C.I.P. Culverts	T.T. Culverts	Timber Bridges and Concrete	Guard Rail	Fencing Right-of- Way	Compensation Land	Road Surfacing	Moving Poles	Miscella- neous	Total
.....			\$ 268.78	.....	.....	.....	.....	.....	\$ 268.78
.....			164.55	.....	.....	.....	.....	.....	164.55
.....			101.41	.....	.....	.....	.....	.....	101.41
.....			68.89	.....	.....	.....	.....	.....	68.89
.....			103.05	.....	.....	.....	.....	.....	103.05
.....			194.68	.....	.....	.....	.....	.....	194.68
.....			1,295.99	.....	.....	.....	.....	.....	1,295.99
.....			259.20	.....	.....	.....	.....	.....	259.20
.....			66.15	.....	.....	.....	.....	.....	66.15
.....			166.24	.....	.....	.....	.....	.....	166.24
\$ 256.90									490.50
56.10									56.10
.....			103.16	.....	.....	.....	.....	.....	103.16
.....			103.16	.....	.....	.....	.....	.....	103.16
2,296.65	\$ 4,964.76	\$ 1,172.76	512.37	\$ 1,415.49	\$ 4,472.81	\$ 29,921.03	\$ 832.69	\$ 23,461.48	137,675.34
190.70	183.97	2,313.52	248.94	55.22	738.50	27,567.57	1.67	.....	40,725.36
.....			226.14	.....	.....	5,231.92	.....	.....	5,908.43
.....			271.04	.....	.....	.....	.....	.....	271.04
.....			340.12	.....	.....	7,078.51	.....	.....	8,007.45
.....			451.73	.....	.....	5,872.20	.....	.....	6,729.72
.....			221.38	.....	.....	.....	.....	.....	221.38
.....			171.74	.....	.....	2,112.13	.....	.....	2,936.79
.....			204.40	.....	.....	.....	.....	.....	204.40
.....			136.89	.....	.....	.....	.....	.....	136.89
.....			117.21	.....	.....	.....	.....	.....	117.21
.....			74.07	.....	.....	.....	.....	.....	74.07
.....			247.53	.....	.....	.....	.....	.....	247.53
.....					3.30	.....	.....	.....	3.30
30.86					132.18	5,862.40	.....	.....	9,115.61
838.32	48.94	166.21	6.60	545.93	110.00	27,070.28	1,175.25	.....	77,434.93
8,638.41		10,451.35	.....	52.77	210.00	36,013.16	2,539.14	78.17	143,792.50
.....			84.53	.....	.....	.....	.....	.....	84.53
.....					30.00	.....	.....	.....	30.00
181.00						562.24	.....	.....	791.70
734.29	1,513.82	.....	.....	243.00	1,416.96	11,956.63	1,114.24	.....	61,184.34
.....									352.05
498.69	9.82	611.19	.....	213.00	1,601.61	111.77	36.93	.....	26,838.32
1,911.99	2,087.21	31.62	.....	774.97	4,592.45	9,223.02	123.24	.....	80,222.83
4,962.05									26,449.42
664.51	6,852.42	151.80	.....	1.87	.....	33,539.39	84.86	276.22	97,643.34
1,001.61	3,811.00	172.55	.....	33.00	.....	19,584.93	.....	.....	81,667.52
.....		672.48	.....	.....	.....	.....	.....	.....	672.48
.....		1,008.97	65.98	.....	.....	.....	.....	.....	3,526.62
.....		1,644.73	.....	.....	.....	.....	.....	.....	1,644.73
.....			1,534.56	.....	.....	.....	.....	.....	1,534.56
.....			235.84	.....	.....	.....	.....	.....	235.84
6,652.46	3,726.29	738.96	.....	260.00	148.35	.....	396.39	.....	79,216.16
954.93	4,854.00	2,202.19	.....	1,998.71	2,720.20	.....	241.04	.....	35,289.60
.....			150.16	.....	.....	.....	.....	.....	150.16
.....			2,160.98	.....	.....	.....	.....	.....	2,160.98
.....									13.73
.....			517.12	.....	.....	.....	.....	.....	517.12
8,549.60	88.76	1,571.61	1,021.44	419.32	1,714.45	292.71	360.25	.....	54,036.85
1,051.11	2,688.51	2,719.20	3,069.51	1,024.13	795.80	.....	183.67	64.59	42,921.44
.....						13,911.08	.....	.....	14,265.31
.....						11,133.93	.....	.....	11,313.65
.....			167.57	.....	.....	.....	.....	.....	267.17
.....			1,135.21	.....	.....	.....	.....	.....	1,135.21
.....									2,569.51
.....			8.00	.....	.....	.....	.....	.....	8.00
.....									1,044.47
.....									2,615.19
.....									186.68
.....									453.95
.....									251.12
.....									167.90
\$39,470.18	\$30,829.50	\$25,629.14	\$16,276.32	\$7,037.41	\$18,686.61	\$247,044.90	\$7,089.37	\$23,880.46	\$1,068,556.29

DEPARTMENT OF PUBLIC WORKS

CONSTRUCTION

Project No.	LOCATION	Prelim- inary Engi- neering	Adver- tising	Construc- tion Engi- neering	Clearing and Grubbing	Grading
	Administration .....	.....	.....	.....	.....	.....
	Gravel Pits .....	.....	.....	.....	.....	.....
	Roads Through Towns (See Statement) .....	.....	.....	.....	.....	.....
	TOTAL—VOTE 754-B.....	.....	.....	.....	.....	.....
	VOTE 771-B.H.					
47290	Luscar-Cadomin-Mountain Park .....	.....	.....	.....	.....	\$ 494.76
48547	Foothills-Coalspur	223.31	.....	.....	.....	12,973.90
	TOTAL VOTE 771-B.H.....	\$ 223.31	.....	.....	.....	\$ 13,468.66
	VOTE 706-B.H.					
40-01-A	Calgary-Crossfield .....	.....	.....	\$ 1,312.22	.....	.....
	SUMMARY:					
	Vote 754	\$12,466.02	\$360.14	\$60,930.13	\$18,740.91	\$560,115.20
	Vote 771-B.H.	223.31	.....	.....	.....	13,468.66
	Vote 706-B.H. ....	.....	.....	1,312.22	.....	.....
	GRAND TOTAL.....	\$12,689.33	\$360.14	\$62,242.35	\$18,740.91	\$573,583.86

EXPENDITURES—*Continued*

W.S.P. and C.I.P. Culverts	T.T. Culverts	Timber Bridges and Concrete	Guard Rail	Fencing Right-of- Way	Compensation Land	Road Surfacing	Moving Poles	Miscellaneous	Total
.....	.....	.....	.....	.....	.....	.....	.....	\$15,671.18	.....
.....	.....	.....	.....	.....	.....	.....	.....	2,506.00	.....
.....	.....	.....	.....	.....	.....	.....	.....	21,147.94	.....
									\$ 39,325.12
.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1,107,881.41
.....	.....	.....	.....	.....	.....	.....	.....	.....	\$ 494.76
.....	.....	.....	.....	.....	.....	.....	.....	.....	13,197.21
.....	.....	.....	.....	.....	.....	.....	.....	.....	\$ 13,691.97
.....	.....	.....	.....	.....	.....	\$ 20,412.68	.....	.....	\$ 21,724.90
\$39,470.18	\$30,829.50	\$25,629.14	\$16,276.32	\$7,037.41	\$18,686.61	\$247,044.90	\$7,089.37	\$63,205.58	\$1,107,881.41
.....	.....	.....	.....	.....	.....	.....	.....	.....	13,691.97
.....	.....	.....	.....	.....	.....	20,412.68	.....	.....	21,724.90
\$39,470.18	\$30,829.50	\$25,629.14	\$16,276.32	\$7,037.41	\$18,686.61	\$267,457.58	\$7,089.37	\$63,205.58	\$1,143,298.28

BRIDGE CONSTRUCTION AND MAINTENANCE

April 1st, 1935, to March 31st, 1936

(N. W. MACPHERSON, *Bridge Engineer*)

During the season 11 crews were employed—one in painting steel bridges, another mostly on guard rail work on Main Highways, the remainder on steel and timber bridges.

Treated timber was used on all bridges excepting where local material was available.

A considerable amount of work was performed on Main Highways, covering steel and timber bridges, and pile and concrete culverts. Also a certain amount of ferry construction and maintenance work was undertaken.

All steel bridges were fabricated within the Province, and the following is a list of same:

Construction:		Stream	Location
Size			
1 250-foot span	.....	Pembina River	Between 4/9-62-27-4
1 125-foot span	.....	Burnt River	N.W. 1/4 11-78-4-6
1 70-foot span	.....	Paddle River	S. 16-57-7-5
1 90-foot span	.....	Beaver River	21/28-62-8-4
1 80-foot span	.....	Trout Creek	N.W. 1/4 28-54-15-5
1 80-foot span	.....	Prairie Creek	E. 36-72-6-5
1 80-foot span	.....	Smoky River	S. 1/2 17-72-2-6
Re-construction:			
2 125-foot spans	.....	Pembina River	S.W. 1/4 11-58-3-5
1 110-foot span	.....	Battle River	N.E. 1/4 23-45-2-4
1 60-foot span	.....	Sturgeon River	R.L. 2 St. Albert
1 50-foot span	.....	Gold Creek	N.W. 1/4 31-7-3-5
1 100-foot span	.....	Burnt River	R.L. 17 22-77-5-6
1 125-foot span	.....	Medicine River	N.E. 1/4 7-36-1-5
1 125-foot span	.....	Raven River	W. 28-35-3-5
2 135-foot spans	.....	Pembina River	W. 6-57-6-5
2 135-foot spans	.....	Pembina River	15 16-57-5-5
2 150-foot spans	.....	Pembina River	N. 10-61-27-4
Construction or Re-construction of Steel Bridges			17
Construction or Re-construction of Timber Bridges			200
Maintenance of Bridges			181
Total number of Bridges dealt with			398

SURVEYS BRANCH

Report for the Fiscal Year ending March 31st, 1936

(P. N. JOHNSON, *Director of Surveys*)

The report of the Surveys Branch for the past year is very much in line with that of the immediately preceding year. The same number of parties (three) were employed in field work during the season, the nature of the work being surveys of main highways and local roads, the latter being in unorganized districts.

The figures given below show that the progress of the work was very similar to previous years, and we are still carrying forward a number of surveys which have been requested and have not yet been completed.

A slightly larger number of plans was submitted by Municipal Districts; and, in a similar way, a slightly larger number of titles to road-ways surveyed by Municipal Districts was issued.

An increase will be noticed in the number of titles received for road-ways, these being titles to road-ways surveyed under the provisions of *The Public Works Act*.

Surveys required and brought forward from 1934 (after revising Schedule).....	541
Surveys asked for during 1935.....	130
Surveys made during 1935.....	135
Surveys carried over to 1936.....	536
Plans submitted and examined on behalf of M.D.'s.....	216
Titles issued to road-ways surveyed by M.D.s.....	228
Plans prepared and filed in Land Titles Office.....	132
Certificates of Title received for road-ways.....	172
Certificates of Title received for lands given for public purposes under Departmental Regulations as to subdivisions.....	16
Certificates of Title to public buildings.....	4
Transfers issued covering lands no longer required.....	218
Number of plans of subdivisions approved during 1935.....	31
Plans submitted by the Department of the Interior (Irrigation Branch).....	23
Plans of Power and Transmission Lines.....	9
Vouchers issued for compensation.....	340
Leases of road allowances in force.....	204
Leases of road allowances applied for.....	63

BUILDINGS BRANCH

Report for Fiscal Year ending March 31st, 1936

(W. D. STACEY, *Superintendent of Buildings*)

The general repair and maintenance of all public buildings and institutions has been carried on by this Branch similar to previous years in order to keep them up to standard. All work performed was given economical consideration.

Provincial Mental Institute, Oliver.

Plans were prepared for a new Dormitory Building to accommodate 200 patients. Tenders were called for in August, but it was later decided not to go ahead with this construction this year.

During the month of October, due to the congestion at the Oliver and Ponoka Mental Institutions, it was decided to build an addition to Number 3 Dormitory, at Oliver Mental Institute. This building has accommodation for 50 patients, and is equipped with psychopathic wards and hydropathic baths. The work was performed by day labour under the supervision of our General Foreman, and completed April 1st, at an approximate cost of \$50,000.00, including equipment.

Provincial Mental Hospital, Ponoka.

Additions to the Laundry Building costing \$12,418.67 were erected at this Institution. Work was performed by day labour under the supervision of our foreman.

Provincial Mental Hospital, Claresholm.

Green-houses were built at this Institution at a cost of \$1,460.80.

Lethbridge Provincial Gaol.

Several concrete pig pens were erected at this Institution, the work being performed by prison labour under the direction of our foreman, at a cost of \$2,833.01.

The old Bank of Commerce Building was purchased by this Department, at a cost of \$10,000.00, and was fitted up for Lands and Mines Offices and Public Works Offices. The cost of renovating was \$2,370.00.

Institute of Technology, Calgary.

Considerable work was done laying out and improving of

grounds at this Institution. The work was performed mostly by relief labour under the supervision of our foreman. Approximate cost, \$4,000.00.

Furnishings for Buildings.

\$13,789.00 was expended in equipment on the various buildings throughout the Province.

Expenditures controlled by this Branch during the year 1935-36 were as follows:

CAPITAL EXPENDITURES	
Additions and Furnishings.....	\$ 13,789.92
Institute of Technology, Calgary.....	4,097.95
Provincial Mental Hospital, Ponoka.....	25,295.40
Provincial Training School, Red Deer.....	2,065.29
Provincial Gaol, Lethbridge.....	2,833.01
Provincial Gaol, Fort Saskatchewan.....	731.58
Storage and Repair Shop, Calgary.....	528.94
Storage and Repair Shop, Edmonton.....	1,216.47
Lands and Mines, Lethbridge.....	7,831.34
Storage and Repair Shop, Macleod.....	175.83
Provincial Hospital, Claresholm.....	1,460.80
Provincial Mental Institute, Oliver.....	49,828.17
	\$109,854.70
MAINTENANCE	
Department and Legislative Buildings.....	\$370,147.15
Public Institutions	85,032.83
Government House	14,907.39
Power Plants	231,565.55
	\$701,652.92

POWER PLANTS

Report for Fiscal Year Ending March 31st, 1936

(JOHN DOUGLAS, *Mechanical Superintendent*)

During the year capital expenditure amounting to approximately \$13,955.00 was made at the various plants.

The load curve for the plants is still rising. The heating load alone shows an increase during the period from 1928 to date of approximately 35 per cent; and, although very definite savings have been effected in power plant operation, they have been practically off-set by increased load and increased building system maintenance, the latter owing to institution average age of over 20 years.

Due to last winter's long low temperature readings, 10,117 degree days were recorded at Calgary, compared to the 23-year average of 8,800.

No complaints were received from any of the Institutions regarding the services supplied.

Extremely regret to report the accidental death of Engineer Alex Fowler of Ponoka. Full particulars of the accident were forwarded at the time.

An outline of operations at the various Institutions follows:
Fort Saskatchewan Gaol.

The pumping equipment at the river and the filter basin has been overhauled and is giving good service. A new 60-foot by 36-inch smokestack was installed for the boilers.

Capital expenditure amounted to approximately \$731.00. A sand filter was installed; more sedimentation area is required to successfully handle muddy water peaks. A 65-kilowatt Westinghouse generator directly connected to a Robb automatic cut-off slide valve engine was installed. The generator was changed from 2-wire to 3-wire, to suit plant conditions. This unit has already paid for itself.

Oliver Mental Institute.

The addition to No. 3 Dormitory together with the increase of inmates to 530 has increased the service load.

The septic tank is operating at capacity. Any additional building necessitates an addition to the tank.

Pounds of water evaporated from boilers for the year were 51,889,000.

Electric energy kilowatt hours generated: 450,400.

Water purchased from the City of Edmonton; over 19 million gallons.

Parliament Buildings.

This plant gave satisfactory service. Changes made to stokers, together with the installation of new air dust and division plate in ash-pit, has increased flexibility of plant. Performance charts from boilers compare favourably with much larger and more costly equipped plants.

An evaporator assembly made at this plant at less than one-third the cost of a purchased unit was installed at Ponoka, and has given entire satisfaction. Over 5 million pounds of pure feed water has been supplied to the boilers to date by this evaporator.

Increase of 71,730 kilowatt hours of purchased current and 27,320 of generated current is recorded.

Ponoka Mental Hospital.

This plant supplied services at an average per day as follows:

Steam at 185 pounds pressure: 357,000 pounds per day.

Electric energy, AC and DC at 2,300 and 220 volts pressure: 3,700 kilowatt hours per day.

Water pumped from deep wells to tower at 70 pounds pressure: 176,000 gallons per day.

Hot water heated from 47 degrees to 160 degrees: 47,000 gallons per day.

Sewage treated through activated sludge system: 171,000 gallons per day.

Mechanical refrigeration: 15 tons per day.

Capital expenditure of approximately \$12,876.00 was made at this Institution.

A new deep well was drilled and a complete duplicate of the No. 4 electric driven equipment was installed.

An addition to the north side of the power house, houses transformer, cable DC and AC switchboards (which are being installed to comply with *The Electrical Protection Act*), office space and tunnel service connections to main, and new addition to laundry.

Provincial Training School, Red Deer.

Services supplied at this Institution were satisfactory. Electric energy purchased amounted to 27,013 kilowatt hours, and 44,960 were generated. Water purchased from the City of Red Deer totalled 8,945,000 gallons.

Capital expenditure of approximately \$386.00 covered the installation of booster motor driven turbine type pump.

Institute of Technology and Art.

Coal was burned at this plant for 4 months, and natural gas for the remainder of the year.

Approximately 3,900 square feet of radiation was changed and re-arranged in the Main Building, resulting in better heat distribution.

Although the winter was long and severe, this plant again showed a slight reduction in operating cost, before allowing for 1,200 kilowatt hours of electric energy and \$240.00 worth of gas supplied the Relief Camp, free of charge.

Central Alberta Sanatorium.

During the year approximately 47½ million cubic feet of gas were burned at this plant, and 922 thousand in the kitchen. 37¼ million pounds of water were evaporated in the boilers. 314,420 kilowatt hours of electric energy were generated. 17¾ million gallons of water were pumped through filters to the elevated tank. 2½ million gallons of hot water, 1 million gallons of zeolite treated softened water, and 725 tons of mechanically produced refrigeration were supplied.

Extra boiler power is under consideration for this plant.

Lethbridge Gaol.

During the year approximately 8 million gallons of water were pumped from the lake to the elevated tank for boiler and general purposes. Four and a quarter million gallons were purchased from the City of Lethbridge at a cost of \$1,061.62. Revenue from water sold amounted to \$754.16.

Direct current electric energy generated amounted to 88,515 kilowatt hours.

One boiler was completely re-tubed and boiler setting practically re-built.

LICENSES ISSUED UNDER THE PUBLIC VEHICLES ACT

(W. T. AITKEN, *Chief Clerk*)

Operator	Address	Route
Alberta Montana Bus Lines...	Lethbridge..	Lethbridge-Coutts Lethbridge-Etzikom Pincher Creek-Waterton Lakes
Blue Goose Line.....	Thorhild.....	Edmonton-Thorhild
Brewster Transport Co. Ltd...	Banff.....	Calgary-Banff
Canadian Coachways	Edmonton...	Edmonton-Athabasca Edmonton-Breton-Winfield
Central Alberta Stages.....	Lacombe.....	Lacombe-Monitor Lacombe-Rimbey
Central Canadian Greyhound Lines Ltd	Calgary.....	Calgary-Edmonton Calgary-Med. Hat-Sask. Bdy. Calgary-Lethbridge Lethbridge-Medicine Hat Lethbridge-Cardston-Waterton Lake Lethbridge-High River (via Vulcan) Macleod-Crow's Nest
Collins, A. P.....	Edmonton...	Edmonton-Mayerthorpe
Craig, O. A.....	Vulcan.....	Calgary-Vulcan
Drumheller Bus & Taxi Co....	Drumheller..	Drumheller-East Coulee Drumheller to Wayne Drumheller-Nacmire
Glacier Park Transport Co....	Glacier Park. Montana...	Carway-Waterton Lake
Lethbridge Northern Bus Line	Lethbridge..	Lethbridge-Turin
Midland Bus Lines Ltd.....	Edmonton...	Edmonton-Lloydminster (via Bremner) Edmonton-Lloydminster (via Lamont) Edmonton-Wildwood Vegreville-Cold Lake
Northland Rapid Transit Ltd.	Edmonton...	Edmonton-Barrhead
Red Bus Lines.....	Drumheller..	Calgary-Drumheller-Alsask Beiseker-Stettler (via Delburne) Carbon-Central Service Station
Silverlyn Bus Line.....	Wetaskiwin..	Camrose-Alliance
Sorensen Bus Lines.....	Red Deer....	Red Deer-Rocky Mountain House Rocky Mountain House-Nordegg
Sunburst Motor Coaches Ltd..	Edmonton...	Edmonton-Wainwright Edmonton-Smoky Lake Wetaskiwin-Hardisty Wetaskiwin-Pigeon Lake Tofield-Alliance
Sunshine Bus Lines.....	Calgary.....	Grande Prairie-Peace River Grande Prairie-Hythe-B.C. Bdy. Calgary-Lomond
Van Wert, T.....	Redcliff....	Medicine Hat-Redcliff

LICENSES CANCELLED

Silverlyn Bus Line.....	Camrose-Alliance	Discontinued operation
Alberta Central Stages.....	Lacombe-Rimbey (.....)	Failure to pay monthly
	Lacombe-Monitor (.....)	fees

The mileage covered on gravel surfaced roads during the calendar year was 2,042,105, and on dirt roads, 396,626, a total of 2,438,731; an increase of 227,911 miles over that of the previous year.

The mileage operated was 88.11% of the possible schedule. This is not as good a showing as was made during the previous year, due to the wet season and the consequent condition of dirt roads. The percentage on gravel roads was 94.5%, and on dirt roads only 65.2%.

The total number of passenger miles was 36,047,174. Ninety buses were licensed, with an aggregate carrying capacity of 1,181 passengers.

PROVINCIAL GAOL—FORT SASKATCHEWAN

(J. D. McLEAN, *Warden*)

The daily average population of this Institution for the fiscal year ending March 31st, 1936, was 220, being a decrease of 35 from the previous year.

The Medical Officer carried out the usual monthly inspection of all parts of the Institution, and reports the maintenance of the usual high standard of cleanliness and sanitary conditions. The general health of the inmates was good. No epidemics developed, and there were no deaths recorded.

A decrease in farm revenue, as compared with the previous year, resulted from unfavourable crop conditions. Due to heavy early frost, the grade and yield on all grains was lowered. Large quantities of the frozen grain were used for feeding cattle and hogs; but due to the low feed value of the grain, profit from feeding operations was reduced.

Farm crops yielded:

6,620 bushels of wheat,
6,452 bushels of oats,
2,844 bushels of barley,
68 tons of green feed,
70 tons of timothy,

and an abundance of vegetables.

FINANCIAL STATEMENT—SUMMARY

Administration	\$65,115.00
Maintenance and operation.....	24,526.20
Gross Cost	\$89,641.20
Less Revenue	5,096.83
Net Cost	\$84,544.37
Average Daily Population.....	220
Gross per capita cost per prisoner per day.....	1.12
Gross per capita cost per prisoner per year.....	407.46
Net per capita cost per day.....	1.05
Net per capita cost per year.....	384.29

ANNUAL REPORT OF PRISONERS FOR YEAR ENDING MARCH 31st, 1936

MALE

Month	Admitted		Discharged	
	Comm.	Sent.	Comm.	Sent.
April, 1935	14	59	13	78
May, 1935	27	92	30	124
June, 1935	10	104	9	67
July, 1935	21	111	21	85
August, 1935	12	185	7	212
September, 1935	6	68	15	56
October, 1935	24	108	20	75
November, 1935	28	99	26	100
December, 1935	4	58	5	88
January, 1936	11	70	10	59
February, 1936	23	70	19	71
March, 1936	29	80	35	93
	209	1,104	210	1,108

Total Number of Male Prisoners Admitted..... 1,313
Total Number of Male Prisoners Discharged..... 1,318

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	Comm.	Sent.
Male Prisoners in Gaol as at March 31st, 1935.....	7	200
Male Prisoners admitted during year ending March 31st, 1936..	209	1,104
TOTAL.....	216	1,304
Prisoners discharged during year ending March 31st, 1936.....	210	1,108
Prisoners in Gaol as at March 31st, 1936.....	6	196
Total Prisoners in Gaol as at March 31st, 1936.....		202
Daily average Male Prisoners for the year ending March 31st, 1936.....		205.45

DISCHARGES

Term expired	945	Deported	9
Fines paid	16	Transferred to R.C.M.P.....	30
Paroled	49	Transferred to hospital.....	5
Released for trial.....	162	Transferred to Ponoka.....	14
Released on further charges.....	13	Conviction quashed	3
Released to Immigration Dept....	1	Hanged	1
Released to Attor. Gen. Dept.....	7	Transferred to Prince Albert....	17
Released as witness.....	12	Escaped	1
Released on bail.....	33		
			1,318

SENTENCES

Under 30 days.....	265	9 months to 1 year.....	23
30 days to 2 months.....	312	1 year to 2 years.....	48
2 months to 3 months.....	108	Venereal disease	4
3 months to 4 months.....	172	To be hanged.....	1
4 months to 6 months.....	80		
6 months to 9 months.....	91		1,104

REMISSIONS

Number of Prisoners receiving full remission during year.....	713
Number of Prisoners receiving part remission during year.....	27
Number of Prisoners not entitled to remission during year.....	578
Total Prisoners.....	1,318
Number of days remission earned during year ending March 31st, 1936.....	11,177
Number of prisoners participating during year ending March 31st, 1936.....	740
Average number of days remission per prisoner during year ending March 31st, 1936.....	15.10

COUNTRY OF BIRTH

Canada	572	Germany	19
U.S.A.	77	France	5
England	62	Denmark	4
Scotland	35	Switzerland	3
Ireland	42	Greece	1
Wales	1	Roumania	12
Australia	2	Hungary	9
Austria	79	Italy	1
Poland	78	Holland	3
Ukrania	13	Finland	7
Czecho-Slovakia	12	Lithuania	4
Jugo-Slavia	3	India	1
China	1	Belgium	1
Sweden	12	Bulgaria	1
Norway	22	Japan	1
Russia	21		
			1,104

AGES

Under 20 years.....	75	50 to 60 years.....	86
20 to 30 years.....	432	60 to 70 years.....	31
30 to 40 years.....	292	Over 70 years.....	4
40 to 50 years.....	184		
			1,104

CRIMES

AGAINST RELIGION AND MORALS

Vagrancy	132	Attempted rape	1
Carnal knowledge	7	Bigamy	1
Living on avails of prostitution...	2	Incest	1
Juvenile delinquency	21	Keeping a disorderly house.....	1
Venereal disease	4		
Seduction	5		175

DEPARTMENT OF PUBLIC WORKS

AGAINST THE PERSON

Assault	52	Threaten bodily harm.....	3
Assault with grievous bodily harm	14	Attempt suicide	3
Non-support	7	Wound with intent.....	1
Indecent assault	6	Wounding	1
Assault a police officer.....	2	Conspiracy	2
Murder	1	Blackmail	1
Mischief	1		
			<u>94</u>

AGAINST PUBLIC LAW AND ORDER

Illegal possession of firearms.....	8	Create a disturbance.....	4
Obstruct a peace officer.....	3	Assist a prisoner to escape.....	1
			<u>16</u>

AGAINST PROPERTY

Conversion	6	Theft of money.....	4
Theft	120	Arson	1
Theft of automobile.....	4	Make counterfeit coins.....	1
Break enter and theft.....	29	Perjury	2
False pretences	45	Assist theft	1
Wilful damage to property.....	11	Possession of counterfeit money..	1
Drunk in charge of automobile...	11	Attempted theft	6
Theft of live stock.....	5	Operate car without owner's consent	4
Forgery	11	Obtain food by fraud.....	2
Uttering	7	Theft of grain.....	5
Possession of stolen property.....	35	Fail to pay costs of Court.....	2
Unlawfully killing a sow.....	1		
			<u>314</u>

AGAINST ANY OTHER ACT

Liquor Act	183	Poison a Horse.....	1
Excise Act	90	Vehicles and Highway Traffic Act	6
Cruelty to Animals.....	4	Trade Schools Regulation Act....	1
Railway Act	185	Indian Act	10
Domestic Relations Act.....	6	Medical Act	1
Domestic Animals Act.....	4	Post Office Act.....	1
Municipal Act	1		
Game Act	8		<u>505</u>
Alimony Enforcement Act.....	4		
GRAND TOTAL			1,104

FEMALE

NUMBER OF FEMALE PRISONERS ADMITTED AND DISCHARGED
DURING YEAR ENDING MARCH 31st, 1936

Month	Admitted		Discharged	
	Comm.	Sent.	Comm.	Sent.
April, 1935	4	9	5	6
May, 1935	2	8	2	14
June, 1935	1	8	0	10
July, 1935	3	7	3	7
August, 1935	0	8	0	9
September, 1935	5	15	5	7
October, 1935	5	9	5	13
November, 1935	11	7	10	5
December, 1935	3	15	3	13
January, 1936	4	12	6	10
February, 1936	0	11	0	11
March, 1936	2	11	2	12
TOTALS.....	<u>40</u>	<u>120</u>	<u>41</u>	<u>117</u>

Total Number of Females Admitted.....	160
Total Number of Females Discharged.....	158

	Comm.	Sent.
Female Prisoners in Gaol as at March 31st, 1935.....	1	15
Female Prisoners admitted during year ending March 31st, 1936....	<u>40</u>	<u>120</u>
	41	135
Female Prisoners discharged during year ending March 31st, 1936..	<u>41</u>	<u>117</u>
	0	18
Female Prisoners in Gaol as at at March 31st, 1936.....		
Daily average for year ending March 31st, 1936.....		14.13

DISCHARGES DURING THE YEAR ENDING MARCH 31st, 1936

Term expired	93	Transferred to Ponoka.....	3
Released for trial.....	35	Transferred to R.C.M.P.....	5
Released by order of Dr. Orr...	12	Paroled	2
Released on bail.....	3	Released on further charge.....	1
Released by Attorney Gen. Dept.	2	Fine paid	1
Transferred to hospital.....	1		
			<u>158</u>

REMISSION

Number of Prisoners earning full remission during year.....	82
Number of Prisoners earning no remission during year.....	76
	<u>158</u>

Total Prisoners discharged.....

Number of days remission earned during year ending March 31st, 1936.....	619
Number of Prisoners participating during year ending March 31st, 1936.....	82
Average number of days per Prisoner during year ending March 31st, 1936....	7.54

SENTENCES

Under 30 days.....	22	6 months to 9 months.....	4
30 days to 2 months.....	52	9 months to 1 year.....	2
2 months to 3 months.....	16	1 year to 2 years.....	1
3 months to 4 months.....	15	Venereal disease	4
4 months to 6 months.....	4		
			<u>120</u>

COUNTRY OF BIRTH

Canada	84	Ukrania	5
Belgium	1	U.S.A.	15
Scotland	1	Poland	5
England	4	Roumania	1
Hungary	1	Austria	2
Russia	1		
			<u>120</u>

AGES

Under 20 years.....	7	50 to 60 years.....	8
20 to 30 years.....	51	60 to 70 years.....	1
30 to 40 years.....	40		
40 to 50 years.....	13		
			<u>120</u>

CRIMES

AGAINST RELIGION AND MORALS

Vagrancy	28	Breach of Juvenile Delinquency Act	3
Keeper of a disorderly house....	16	Venereal disease	9
Inmate of a bawdy house.....	6		
			<u>62</u>

AGAINST THE PERSON

Manslaughter	1	Theft from the person.....	1
Neglect of child causing death...	1	Forgery and uttering.....	1
Assault	7		
			<u>11</u>

AGAINST PUBLIC LAW AND ORDER

Breach of recognizance..... 1

AGAINST PROPERTY

Theft	9	Possession of stolen property....	1
False pretences	1		
			<u>11</u>

AGAINST ANY OTHER ACT

Liquor Act	26	Excise Act	5
Venereal Disease Act.....	2	Fail to Pay Costs of Court.....	1
Administer Drugs to Cause Abortion	1		
			<u>35</u>

GRAND TOTAL OF CRIMES..... 120

PROVINCIAL GAOL—LETHBRIDGE

(G. E. BLAKE, *Warden*)

The daily average population of this Institution for the fiscal year ending March 31st, 1936, was 132.82, being a decrease of 30.84 from that of the previous year.

The usual maintenance work was carried out. There was no construction of major importance.

Farm operations gave the following results:

	Acres	Bushels	Tons
Wheat	87	4,158	...
Oats	101	2,659	...
Barley	54	1,305	...
Hay	280	...	580
Sugar Beets	20	...	220
Potatoes	41	...	287
Peas and Beans.....	20	248	...
Turnips and Mangels..	12	...	250
Vegetables (various) ..	10	...	75

FINANCIAL STATEMENT—SUMMARY

Administration	\$53,831.37
Maintenance and Operation.....	19,900.85
Gross.....	\$73,732.22
Less Revenue	17,559.62
	<u>\$56,172.60</u>
Average daily population.....	133
Gross per capita cost per prisoner per day.....	\$ 1.52
Gross per capita cost per prisoner per year.....	554.38
Net per capita cost per day.....	1.16
Net per capita cost per year.....	422.35

ANNUAL REPORT OF PRISONERS FOR THE YEAR ENDED MARCH 31st, 1936

NUMBER OF PRISONERS ADMITTED AND DISCHARGED

Month	Daily Average	Admitted			Discharged		
		Sent.	Rem.	Com.	Sent.	Rem.	Com.
April, 1935	146.50	71	2	3	66	3	0
May, 1935	129.77	68	7	3	79	5	6
June, 1935	126.70	83	4	4	84	3	4
July, 1935	147.36	168	5	3	91	7	5
August, 1935	164.19	102	2	0	204	3	0
September, 1935	107.73	49	5	1	47	3	4
October, 1935	120.41	65	13	1	42	14	2
November, 1935	126.40	74	3	2	58	4	1
December, 1935	143.83	61	5	3	65	5	0
January, 1936	135.64	47	5	4	59	4	6
February, 1936	122.37	54	2	0	52	1	1
March, 1936	122.96	63	4	1	51	4	3
Monthly Average	132.82	Total: 905	57	25	898	56	32

Total number of Prisoners admitted during year 1935-36..... 987

Total number of Prisoners discharged during year 1935-36..... 986

	Sent.	Rem.	Com.
Number of Prisoners in Gaol on April 1st, 1935.....	130	1	7
Number of Prisoners admitted during 1935-36.....	905	57	25
	<u>1,035</u>	<u>58</u>	<u>32</u>
Number of prisoners discharged during 1935-36.....	898	56	32
Number of prisoners in Gaol on March 31st, 1936.....	137	2	0
Number of prisoners who have served previous sentences.....			553

REMISSIONS

Number of days of remission earned during 1935-1936.....	6,201
Number of prisoners participating.....	569
Number of days of remission per prisoner.....	10.89

SENTENCES

Under 30 days.....	296	Committed for trial.....	37
30 days to 2 months.....	341	Remanded for trial.....	68
2 months to 3 months.....	35		105
3 months to 4 months.....	75		
4 months to 5 months.....	18	Awaiting appeal.....	1
5 months to 6 months.....	3	Sent to Prince Albert Penitentiary.....	8
6 months to 9 months.....	37		9
9 months to 1 year.....	16		
1 year to 18 months.....	39	Total.....	987
18 months to 23 months.....	6		
2 years less 1 day.....	7		
	873		

DISCHARGES

Completion of sentence.....	828	Immediate release by Gov. Gen....	5
Discharged to Court.....	88	By order of Attorney General....	2
Deported.....	8	To Prince Albert Penitentiary....	8
By the Immigration Commissioner	4	Conviction quashed.....	2
To Ponoka Mental Hospital.....	11	Warrant of Deliverance.....	1
Released on bail.....	3	To R.C.M.P.....	1
Fine and costs paid.....	10	By Order of Gaol Surgeon.....	1
Under Ticket of Leave Act.....	14		986

COUNTRY OF BIRTH

Australia.....	2	Holland.....	1
Canada.....	576	Hungary.....	26
England.....	56	Italy.....	3
Ireland.....	36	Jugo-Slavia.....	2
Newfoundland.....	1	Lithuania.....	1
Scotland.....	68	Norway.....	9
Wales.....	8	Poland.....	22
Austria.....	15	Roumania.....	14
Belgian Congo.....	1	Russia.....	14
China.....	1	South America.....	1
Czecho-Slovakia.....	6	Sweden.....	6
Denmark.....	9	Switzerland.....	2
Finland.....	8	Ukraine.....	2
France.....	3	United States.....	80
Germany.....	12	Nationality unknown.....	1
Hawaii.....	1		987

AGES

Under 20 years.....	92	50 to 60 years.....	62
20 to 30 years.....	426	60 to 70 years.....	19
30 to 40 years.....	256	Over 70 years.....	1
40 to 50 years.....	131		987

CRIMES

AGAINST PUBLIC LAW AND ORDER

Offensive weapons.....	2	Perjury.....	3
Pointing firearms.....	1	Resisting arrest.....	1
Possession of firearms by aliens..	1		9
Obstructing a Police Officer.....	1		

OFFENCES AGAINST RELIGION AND MORALS

Attempted buggery.....	1	Keeping disorderly house.....	1
Betting and bookmaking.....	1	Living off avails of prostitution..	1
Found in disorderly house.....	2	Procuring.....	1
Incest.....	2	Seduction.....	3
Illicit connection with foster-child	1	Vagrancy.....	209
Indecent act.....	3		226
Indecent exposure.....	1		

DEPARTMENT OF PUBLIC WORKS

OFFENCES AGAINST THE PERSON

Common assault	31	Bigamy	1
Indecent assault	7	Manslaughter	1
Occasioning bodily harm.....	5	Wounding	2
Neglect to provide.....	6	Intent to wound.....	1
Carnal knowledge of a girl between the ages of 14 and 16 years	1	Threat of violence.....	1
Attempted carnal knowledge.....	2	Furious driving	9
			67

AGAINST PROPERTY

Intimidation	5	Obtaining food by fraud.....	3
Attempted breaking and entering	4	Fraudulent taking of stray cattle	3
Breaking and entering with theft	37	Forgery	7
Breaking and entering with intent	6	Uttering forged documents.....	6
Receiving stolen property.....	41	Extortion	1
Common thefts	133	Attempted robbery	1
Theft by failure to account.....	1	Robbery with violence.....	2
Automobile thefts	26	Robbery while armed.....	2
Cattle and horse stealing.....	13	Wilful damage	3
Attempted theft	3	Killing stock	3
Obtaining articles or credit by false pretences	29	Failure to make restitution.....	1
			330

AGAINST ANY OTHER ACT

Juvenile Delinquents Act.....	4	Child Welfare Act.....	1
Excise Act	7	Game Act	1
Immigration Act	1	Liquor Act	95
Indian Act	33	Vehicles and Highway Traffic Act	3
Opium and Narcotic Drug Act...	3	Veneral Diseases Prevention Act	3
Railway Act	197	Insanity Act	4
Extradition Act	1	City of Lethbridge By-Law 564..	1
Passenger Tickets Act.....	1		355
GRAND TOTAL			987